## IN THE CLAIMS:

The status of each claim that has been introduced in the above-referenced application is identified in the ensuing listing of the claims. This listing of the claims replaces all previously submitted claims listings.

## 1-46. (canceled)

- 47. (Currently amended) A conductive trace at least partially formed on at least one semiconductor device component, comprising a plurality of superimposed, contiguous, mutually adhered layers, each of <u>saidthe</u> layers comprising conductive polymer, at least a portion of <u>saidthe</u> conductive trace being configured to extend and conduct electrical signals along a plane which is parallel to a plane in which the at least one semiconductor device component is located.
- 48. (Currently amended) The conductive trace of claim 47, wherein saidthe conductive polymer comprises a thermoplastic conductive elastomer.
  - 49. (canceled)
- 50. (previously presented) The conductive trace of claim 47, configured to be carried by a single semiconductor device component.
- 51. (previously presented) The conductive trace of claim 47, configured to at least partially electrically connect two semiconductor device components.
- 52. (Currently amended) A semiconductor device comprising:
  a semiconductor device component; and
  at least one conductive trace carried by saidthe semiconductor device component, saidthe at least
  one conductive trace including a plurality of superimposed, contiguous, mutually adhered

layers, each of saidthe layers comprising conductive polymer, at least a portion of saidthe at least one conductive trace being configured to extend and conduct electrical signals along a plane which is parallel to a plane in which saidthe at least one semiconductor device component is located.

- 53. (Currently amended) The semiconductor device of claim 52, wherein saidthe at least one conductive trace is substantially entirely carried by saidthe semiconductor device component.
- 54. (Currently amended) The semiconductor device of claim 53, wherein saidthe semiconductor device component comprises a layer of a carrier substrate.
- 55. (Currently amended) The semiconductor device of claim 53, wherein saidthe semiconductor device component comprises a dielectric layer disposed on an active surface of a semiconductor die.
- 56. (Currently amended) The semiconductor device of claim 52, wherein saidthe conductive polymer comprises a thermoplastic conductive elastomer.
  - 57. (canceled)
- 58. (Currently amended) The semiconductor device of claim 52, wherein saidthe at least one conductive trace communicates with a contact of saidthe semiconductor device component.
- 59. (Currently amended) The semiconductor device of claim 58, wherein saidthe semiconductor device component comprises a carrier substrate.

- 60. (Currently amended) The semiconductor device of claim 58, wherein saidthe semiconductor device component comprises a semiconductor die.
- 61. (Currently amended) The semiconductor device of claim 58, wherein saidthe semiconductor device component comprises a packaged semiconductor device.
- 62. (Currently amended) The semiconductor device of claim 52, wherein saidthe semiconductor device component comprises leads.
- 63. (Currently amended) The semiconductor device of claim 62, wherein saidthe at least one conductive trace contacts one of saidthe leads.
- 64. (Currently amended) A semiconductor device assembly, comprising:
  a carrier including contacts and carrying circuitry in communication with saidthe contacts; and
  at least one semiconductor die adjacent saidthe carrier, saidthe semiconductor die including bond
  pads; and
- conductive elements extending between and contacting contacts of saidthe carrier and corresponding bond pads to electrically connect circuitry of saidthe at least one semiconductor die with saidthe circuitry of saidthe carrier, each of saidthe conductive elements including a plurality of superimposed, contiguous, mutually adhered layers, each of saidthe layers comprising conductive material.
- 65. (Currently amended) The semiconductor device assembly of claim 64, wherein saidthe carrier comprises a carrier substrate.
- 66. (Currently amended) The semiconductor device assembly of claim 64, wherein saidthe carrier comprises leads.

- 67. (Currently amended) The semiconductor device assembly of claim 64, wherein saidthe conductive material comprises a thermoplastic conductive elastomer.
- 68. (Currently amended) The semiconductor device assembly of claim 64, wherein saidthe conductive material comprises a metal.

## 69-74. (canceled)

- 75. (Currently amended) A semiconductor device assembly, comprising:
  a first semiconductor device component including at least one first contact pad;
  a second semiconductor device component including at least one second contact pad; and
  at least one conductive element in contact with both saidthe at least one first contact pad and
  saidthe at least one second contact pad, saidthe at least one conductive element
  comprising a plurality of superimposed, contiguous, mutually adhered layers comprising
  conductive material.
- 76. (Currently amended) The semiconductor device assembly of claim 75, wherein saidthe conductive material comprises a conductive elastomer.
- 77. (Currently amended) The semiconductor device assembly of claim 75, wherein saidthe conductive material comprises a metal.
- 78. (Currently amended) The semiconductor device assembly of claim 75, wherein at least one of saidthe first semiconductor device component and saidthe second semiconductor device component comprises a semiconductor die.

- 79. (Currently amended) The semiconductor device assembly of claim 78, wherein at least one of saidthe first semiconductor device component and saidthe second semiconductor device component comprises a packaged semiconductor die.
- 80. (Withdrawn and currently amended) The semiconductor device assembly of claim 75, wherein each of saidthe first semiconductor device component and saidthe second semiconductor device component comprises at least one semiconductor die.
- 81. (Currently amended) The semiconductor device assembly of claim 75, wherein at least one of saidthe first semiconductor device component and saidthe second semiconductor device component comprises a carrier substrate.
- 82. (Currently amended) The semiconductor device assembly of claim 81, wherein saidthe carrier substrate includes a support structure and at least one conductive trace carried by saidthe support structure and in communication with saidthe at least one first contact pad thereof.
- 83. (Currently amended) The semiconductor device assembly of claim 82, wherein at least one of saidthe at least one conductive trace and saidthe support structure comprises a plurality of superimposed, contiguous, mutually adhered layers of material.
- 84. (Currently amended) The semiconductor device assembly of claim 75, wherein saidthe at least one conductive element is located on a surface of each of saidthe first and second semiconductor device components.
- 85. (Currently amended) The semiconductor device assembly of claim 84, wherein saidthe at least one conductive element extends across a peripheral edge of at least one of saidthe first and second semiconductor device components.

- 86. (Withdrawn and currently amended) The semiconductor device assembly of claim 80, further comprising a carrier substrate upon which at least one of saidthe semiconductor dice is disposed.
- 87. (Withdrawn and currently amended) The semiconductor device assembly of claim 86, further comprising at least one other conductive element connecting at least one other contact pad of at least one of saidthe semiconductor die to at least one contact pad of saidthe carrier substrate.
- 88. (Withdrawn and currently amended) The semiconductor device assembly of claim 87, wherein saidthe at least one other conductive element comprises a plurality of superimposed, contiguous, mutually adhered layers of conductive material.
- 89. (Withdrawn and currently amended) The semiconductor device assembly of claim 88, wherein saidthe conductive material comprises a conductive elastomer.
- 90. (Withdrawn and currently amended) The semiconductor device assembly of claim 88, wherein saidthe conductive material comprises metal.

## 91-109. (not entered)

110. (Currently amended) A conductive trace at least partially formed on at least one semiconductor device component, comprising a plurality of superimposed, contiguous, mutually adhered layers, each of saidthe layers comprising the same conductive polymer material, at least a portion of saidthe conductive trace being configured to extend and conduct electrical signals along a plane which is parallel to a plane in which the at least one semiconductor device component is located.

- 111. (previously presented) The conductive trace of claim 110, wherein conductive polymer material comprises a thermoplastic conductive elastomer.
- 112. (previously presented) The conductive trace of claim 110, configured to be carried by a single semiconductor device component.
- 113. (previously presented) The conductive trace of claim 110, configured to at least partially electrically connect two semiconductor device components.

114.

- (Currently amended) A semiconductor device comprising: a semiconductor device component; and at least one conductive trace carried by saidthe semiconductor device component, saidthe at least one conductive trace including a plurality of superimposed, contiguous, mutually adhered layers, each of saidthe layers comprising the same conductive polymer material, at least a portion of saidthe conductive trace being configured to extend and conduct electrical signals along a plane which is parallel to a plane in which saidthe at least one semiconductor device component is located.
- 115. (Currently amended) The semiconductor device of claim 114, wherein saidthe at least one conductive trace is substantially entirely carried by said the semiconductor device component.
- 116. (Currently amended) The semiconductor device of claim 115, wherein saidthe semiconductor device component comprises a layer of a carrier substrate.
- 117. (Currently amended) The semiconductor device of claim 115, wherein saidthe semiconductor device component comprises a dielectric layer disposed on an active surface of a semiconductor die.

- 118. (Currently amended) The semiconductor device of claim 114, wherein saidthe conductive polymer material comprises a thermoplastic conductive elastomer.
- 119. (Currently amended) The semiconductor device of claim 114, wherein saidthe at least one conductive trace communicates with a contact of saidthe semiconductor device component.
- 120. (Currently amended) The semiconductor device of claim 119, wherein saidthe semiconductor device component comprises a carrier substrate.
- 121. (Currently amended) The semiconductor device of claim 119, wherein saidthe semiconductor device component comprises a semiconductor die.
- 122. (Currently amended) The semiconductor device of claim 119, wherein saidthe semiconductor device component comprises a packaged semiconductor device.
- 123. (Currently amended) The semiconductor device of claim 114, wherein saidthe semiconductor device component comprises leads.
- 124. (Currently amended) The semiconductor device of claim 123, wherein saidthe at least one conductive trace contacts one of saidthe leads.